

Notice of Allowability

Application No.

10/781,208

Examiner

Jennifer A. Poker

Applicant(s)

MARTIN ET AL.

Art Unit

2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to February 17, 2004.
2. ☒ The allowed claim(s) is/are 1-4.
3. ☒ The drawings filed on 17 February 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☒ A SUBSTITUTE OATH OR DECLARATION must be submitted. ~~Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.~~ *of Provisional Application 60/448,842 supplied on Oath is incorrect. The filing date*
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Lincoln D. Bowman
PRIMARY EXAMINER
GROUP 2102

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 3, no prior art of record or combination thereof teaches an electrical coil comprising a pair of electrical conductors having approximately equal resistance, equal cross sectional area, equal length; wherein the electrical conductors follow about the same path when assembled in parallel; wherein the conductors are in physical contact with each other along about the entire path, but are electrically separated; and further comprising a control circuit adapted to generate respective currents in each of electrical conductors, "wherein the following conditions are satisfied, 1) the respective electrical currents, when summed, will produce a desired resultant field, and 2) a power resultant from one of the electrical currents and resistance of the respective electrical conductor, when summed with another power resultant from the other of the electrical currents and resistance of the respective electrical conductor, will produce a desired total power within the electrical coil."

Regarding claims 2 and 4, no prior art of record or combination thereof teaches an electrical coil placed in a magnetic field, the electrical coil comprising a pair of electrical conductors having approximately, equal resistance, equal cross sectional area, equal length, wherein the electrical conductors follow about the same path when assembled in parallel; wherein the conductors are in physical contact with each other along about the entire path, but are electrically separated; and further comprising a control circuit adapted to generate: a current within one of the electrical conductors, and another current within the other of the electrical conductors, "wherein the following conditions are satisfied, 1) a force resultant from the interaction of the magnetic field with one of the electrical currents, when summed together with another force resultant from the interaction of the magnetic field with the other of the electrical currents, will produce a desired resultant force, and a power resultant from one of the electrical currents and the resistance of the respective electrical conductor, when

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summed together with another power resultant from the other of the electrical currents and the resistance of the respective electrical conductor, will produce a desired total power within the electrical coil."

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

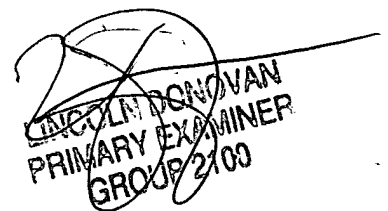
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A. Poker whose telephone number is 571-272-1997. The examiner can normally be reached on 4:30-3:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jap
February 3, 2005


LINCOLN DONOVAN
PRIMARY EXAMINER
GROUP 2100